

WORK PLAN FOR AREA OF CONCERN 659; ZONE H BUILDING 14

Prepared by:

CH2M-Jones, LLC.
Charleston Naval Complex
1849 Avenue F
North Charleston, South Carolina 29405
September 04, 2001

REVISION 1

Prepared For:

Southern Division Naval Facilities Engineering Command P.O. Box 190010 North Charleston, South Carolina 29419-9010

1.0 INTRODUCTION

1.1 Background

The Charleston Naval Complex is located on the banks of the Cooper River in Charleston County, South Carolina, and lies within the corporate boundaries of the city of North Charleston, approximately 5 miles north of the city of Charleston. The Complex is bounded on the east by the Cooper River and on the north, south, and west by the city of North Charleston.

1.2 General Site Description

The CNC is located in the city of North Charleston, on the west bank of the Cooper River in Charleston County, South Carolina as shown in Figure 1. This installation consists of two major areas: an undeveloped dredge materials area on the east bank of the Cooper River on Daniel Island in Berkley County, and a developed area on the west bank of the Cooper River. The developed portion of the base is on the peninsula bounded on the west by the Ashley River and on the east by the Cooper River. The site is located within the developed portion of the base (Tetra Tech, NUS [TTNUS], 1999).

1.3 Previous Investigation

AOC 659 consisted of Building 14, which was a 30,000-gallon, welded-steel Aboveground Storage Tank (AST). The tank was enclosed in a five (5) foot high earthen berm. From 1958 to 1990, it was used to store diesel fuel for small crafts. Prior to 1958, the site was undeveloped tidal marsh. On July 5, 1996 the *Final RCRA Facility Investigation Report for Zone H*, dated June 18, 1998 was completed by Ensafe. There were no VOC, SVOCs, cyanide, metals, or pesticides/PCBs found in soils during the investigations in the 1996 Investigation Report. Only Total Petroleum Hydrocarbons (TPHs) were found during the investigation. Total Petroleum Hydrocarbons were found at all four of the soil sample locations (see Figure 3). For concentrations and interval depths of contamination refer to the *Final RCRA Facility Investigation Report for Zone H*, dated June 18, 1998.

On June 6, 1997 two probe samples (659GP00215 and 659GP00115) were analyzed for VOCs, and SVOCs. No constituents of concern were above the RBSLs.

In a letter dated November 24, 1997, SCDHEC concurred with the Navy's recommendation to transfer AOC 659 to the UST program (see Attachment I). Results from the RCRA investigation found no spill reports, inspection reports, employee interviews, or visual observations, which indicated any release at this site. Also no petroleum constituents were found in the investigation.

On April 12, 1999 a Closure Report for AOC 659 was submitted by the Environmental Department Charleston. In that investigation two soil samples)99SPORT093-2 and 99SPORT093-3) detected soil contamination in excess of established regulatory limits.

2.0 Work Plan Schedule

2.1 Soil Borings

A total of four soil samples and two groundwater samples will be collected adjacent to the former 99SPORT093-02 and 99SPORT093-2 soil samples (Figure 4). Two monitoring wells will be installed as a part of this work plan, see Figure 4. The soil samples will be collected from two intervals. The first interval will be from 0-2 feet below land surface (bls) and the second interval will be from 3-5 feet bls, or until reaching groundwater. Both soils and groundwater will be sampled for VOCs, SVOCs, and MtBE.

ATTACHMENT I



2600 Bull Street Columbia, SC 29201-1708

COMMISSIONER: Douglas E. Bryant

BOARD: John H. Burriss Chairman

William M. Hull, Jr., MD Vice Chairman

Roger Leaks, Jr. Secretary

Mark B. Kent

Cyndi C. Mosteller

Brian K. Smith

Rodney L. Grandy

CERTIFIED MAIL

November 24, 1997

LCDR Paul Rose

Southern Division, NAVFACENGCOM

Caretaker Site Office P.O. Box 190010

North Charleston, SC 29419-9010

Addendum to Final Zone H RCRA Facility Investigation

(RFI) Report, Dated September 30, 1997

Charleston Naval Base SC0 170 022 560

Dear LCDR Rose:

Re:

The South Carolina Department of Health and Environmental Control (Department) has reviewed the above referenced document according to applicable State and Federal Regulations, and the Charleston Naval Base Hazardous Waste Permit, effective June 5, 1990. The US EPA did not provide comments. Based on this review, the Department concurs with the Navy's recommendation on AOC 659 to be transferred to the UST program, and the No Further Action (NFA) recommendation on AOC 661, and AOC 665. The Department does not concur with the Charleston Naval Base NFA recommendation on AOC 667/SWMU 138. The RFI work at these sites is not complete and has not adequately defined the extent of contamination. Additional work under the RFI phase needs to be implemented at AOC 667/SWMU 138 according to the attached comments.

Upon receipt of this letter and within thirty (30) days, the Charleston Naval Base should propose additional work at AOC 667/SWMU 138 to complete the RCRA Facility Investigation (RFI) phase.

Should you have any questions regarding this issue, please contact Johnny Tapia at (803) 896-4179 or Paul Bergstrand at (803) 896-4016.

. ب نه

Sincerely Jartley

Joan Hartley, Manager

Corrective Action Engineering Section Bureau of Land & Waste Management

Attachments

cc: Paul Bergstrand, Hydrogeology

Rick Richter, Trident EQC

Tony Hunt, SOUTHNAVFACENGNCOM Paul Bristol, GW Assessment & Development

Dan Spariosu, EPA Region IV

FIGURES







